

Takatoki Yamamoto

List of Publications by Year in descending order

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Version: 2024-02-01

78
papers

1,534
citations

361045

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315357

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79
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79
docs citations

79
times ranked

2071
citing authors

#	ARTICLE	IF	CITATIONS
1	One-Dimensional Flow of Bacteria on an Electrode Rail by Dielectrophoresis: Toward Single-Cell-Based Analysis. <i>Micromachines</i> , 2021, 12, 123.	1.4	3
2	Measurement of low-grade inflammation of the esophageal mucosa with electrical conductivity shows promise in assessing PPI responsiveness in patients with GERD. <i>American Journal of Physiology - Renal Physiology</i> , 2021, 321, G29-G40.	1.6	1
3	SERS effect of rhombic Au film structure fabricated by NPF method. <i>Proceedings of International Conference on Leading Edge Manufacturing in 21st Century LEM21</i> , 2021, 2021.10, 080-072.	0.0	0
4	Optical Etching to Pattern Microstructures on Plastics by Vacuum Ultraviolet Light. <i>Materials</i> , 2020, 13, 2206.	1.3	3
5	Chemical Lift-Off Process Using Acetone Ink for Easy Fabrication of Metallic Nano/Microstructures. <i>International Journal of Automation Technology</i> , 2020, 14, 229-237.	0.5	2
6	Single-Molecule Detection of DNA in a Nanochannel by High-Field Strength-Assisted Electrical Impedance Spectroscopy. <i>Micromachines</i> , 2019, 10, 189.	1.4	5
7	Fabrication of an Anti-Reflective and Super-Hydrophobic Structure by Vacuum Ultraviolet Light-Assisted Bonding and Nanoscale Pattern Transfer. <i>Micromachines</i> , 2018, 9, 186.	1.4	10
8	Damage-less Handling of Exosomes Using an Ion-depletion Zone in a Microchannel. <i>Analytical Sciences</i> , 2018, 34, 875-880.	0.8	23
9	Subsurface investigation of the surface modification of polydimethylsiloxane by 172-nm vacuum ultraviolet irradiation using ToF-SIMS and VUV spectrometry. <i>Surface and Interface Analysis</i> , 2018, 50, 752-756.	0.8	5
10	Vacuum ultraviolet light assisted bonding and nanoscale pattern transfer method for polydimethylsiloxane. <i>Microelectronic Engineering</i> , 2017, 176, 116-120.	1.1	9
11	Solid state direct bonding of polymers by vacuum ultraviolet light below 160 nm. <i>Applied Surface Science</i> , 2017, 419, 319-327.	3.1	11
12	Development of Virus Concentration Device by Controlling Ion Depletion Zone for Ultrasensitive Virus Sensing. <i>Electronics and Communications in Japan</i> , 2017, 100, 56-63.	0.3	3
13	Editorial: Perspectives for the Next Generation of Virus Research: Spearheading the Use of Innovative Technologies and Methodologies. <i>Frontiers in Microbiology</i> , 2017, 8, 758.	1.5	2
14	Initial Evaluation of the Continuous Sampling Method using Liquid-gate Realized by Porous Membrane and Hydrophilic/Hydrophobic Interface. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2017, 137, 169-173.	0.0	0
15	Quantification of Virus Particles Using Nanopore-Based Resistive-Pulse Sensing Techniques. <i>Frontiers in Microbiology</i> , 2016, 7, 1500.	1.5	77
16	A Novel Fabrication Technique for Liquid-Tight Microchannels by Combination of a Paraffin Polymer and a Photo-Curable Silicone Elastomer. <i>Materials</i> , 2016, 9, 621.	1.3	6
17	Development of Virus Concentration Device by Controlling Ion Depletion Zone for Ultra-sensitive Virus Sensing. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2016, 136, 363-369.	0.0	0
18	Fabrication Method for Moth-eye Structure Made of Glass Using Vacuum Ultraviolet Light Vitrification of Silicone. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2016, 136, 488-492.	0.0	0

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19	Single-molecule Measurement and Its Application by Electric Impedance Spectroscopy Using Nanochannel. Bunseki Kagaku, 2015, 64, 431-440.	0.1	1
20	Nanoscale three-dimensional optical visualization method for a deformation of elastomer printing plate to realize soft nano-printing technology. Surface and Interface Analysis, 2015, 47, 723-727.	0.8	8
21	Nonlinear electrical impedance spectroscopy of viruses using very high electric fields created by nanogap electrodes. Frontiers in Microbiology, 2015, 6, 940.	1.5	9
22	Nano-pattern molding technique using photocurable silicone elastomer. , 2015, , .		0
23	Three-dimensional visualizing method at nanoscale resolution for printing behavior. , 2015, , .		0
24	Conformation dependent non-linear impedance response of DNA in nanofluidic device. , 2015, , .		2
25	Fabrication method of moth-eye using UV-curable polydimethylsiloxane with vitrification by vacuum ultraviolet light. , 2015, , .		0
26	Nanometer-level high-accuracy molding using a photo-curable silicone elastomer by suppressing thermal shrinkage. RSC Advances, 2015, 5, 10172-10177.	1.7	20
27	Study of Metal Etching Using Ozone Water. Electrical Engineering in Japan (English Translation of) Tj ETQq1 1 0.784314 rgBT ₀ /Overlo	0.2	0
28	Direct Evaluation of the Electrokinetic Properties of Electrolytes in a Nanochannel using Electrical Impedance Spectroscopy. Israel Journal of Chemistry, 2014, 54, 1607-1614.	1.0	2
29	Rapid fabrication technique of nano/microfluidic device with high mechanical stability utilizing two-step soft lithography. Sensors and Actuators B: Chemical, 2014, 201, 407-412.	4.0	24
30	Optical property of metallic nanodot arrays fabricated by combination of nano plastic forming and thermal dewetting method. Transactions of the JSME (in Japanese), 2014, 80, MN0272-MN0272.	0.1	0
31	Effects of Morphology of Nanodots on Localized Surface Plasmon Resonance Property. International Journal of Automation Technology, 2014, 8, 74-82.	0.5	7
32	Fabrication of Gold Nanodot Array on Plastic Films for Bio-sensing Applications. Procedia CIRP, 2013, 5, 47-52.	1.0	10
33	Direct measurement of electric double layer in a nanochannel by electrical impedance spectroscopy. Microfluidics and Nanofluidics, 2013, 14, 983-988.	1.0	27
34	Solid-state bonding of silicone elastomer to glass by vacuum oxygen plasma, atmospheric plasma, and vacuum ultraviolet light treatment. Surface and Interface Analysis, 2013, 45, 817-822.	0.8	11
35	Modification of the Glass Surface Property in PDMS-Glass Hybrid Microfluidic Devices. Analytical Sciences, 2012, 28, 39-44.	0.8	18
36	Single molecular level analysis and processing in nanochannels. Frontiers in Bioscience - Scholar, 2012, S4, 1461-1474.	0.8	0

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37	Nanoscale Etching and Flattening of Metals with Ozone Water. Nano Letters, 2012, 12, 3158-3161.	4.5	6
38	Application of cell-free expression of GFP for evaluation of microsystems. Frontiers in Bioscience - Landmark, 2012, 17, 1931.	3.0	2
39	Study of Metal Etching using Ozone Water. IEEJ Transactions on Sensors and Micromachines, 2012, 132, 413-419.	0.0	0
40	A microfluidic in situ analyzer for ATP quantification in ocean environments. Lab on A Chip, 2011, 11, 3508.	3.1	36
41	Integrated in situ genetic analyzer for microbiology in extreme environments. RSC Advances, 2011, 1, 1567.	1.7	18
42	Study on 172-nm vacuum ultraviolet light surface modifications of polydimethylsiloxane for micro/nanofluidic applications. Surface and Interface Analysis, 2011, 43, 1271-1276.	0.8	24
43	Electroactive Microwell Arrays for Highly Efficient Single-Cell Trapping and Analysis. Small, 2011, 7, 3239-3247.	5.2	90
44	An electroactive microwell array for trapping and lysing single-bacterial cells. Biomicrofluidics, 2011, 5, 24114.	1.2	23
45	A Rapid Method for Optimizing Running Temperature of Electrophoresis through Repetitive On-Chip CE Operations. International Journal of Molecular Sciences, 2011, 12, 4271-4281.	1.8	2
46	Direct Bonding between Silicone and Glass by Atmospheric-Pressure Surface Modification. IEEJ Transactions on Sensors and Micromachines, 2011, 131, 159-164.	0.0	4
47	Biomolecular Nano-Flow-Sensor to Measure Near-Surface Flow. Nanoscale Research Letters, 2010, 5, 296-301.	3.1	0
48	Pneumatic handling of droplets on-demand on a microfluidic device for seamless processing of reaction and electrophoretic separation. Electrophoresis, 2010, 31, 3719-3726.	1.3	6
49	Nanofluidic single-molecule sorting of DNA: a new concept in separation and analysis of biomolecules towards ultimate level performance. Nanotechnology, 2010, 21, 395502.	1.3	23
50	Microfluidic Device with Integrated Glucose Sensor for Cell-Based Assay in Toxicology. Journal of Robotics and Mechatronics, 2010, 22, 594-600.	0.5	4
51	On-chip Glucose Sensor for Online Measurement of Cell Activities. IEEJ Transactions on Sensors and Micromachines, 2010, 130, 476-483.	0.0	1
52	Measurements of Nonlinear Electrical Impedances by Virtue of Induced Conformational Changes in DNAs. Journal of Robotics and Mechatronics, 2010, 22, 601-607.	0.5	1
53	Development of On-chip Coculture System for Cytotoxicity Test Using Caco-2 and Hep G2. IEEJ Transactions on Sensors and Micromachines, 2009, 129, 252-258.	0.0	1
54	On-Chip Single Embryo Coculture With Microporous-Membrane-Supported Endometrial Cells. IEEE Transactions on Nanobioscience, 2009, 8, 318-324.	2.2	23

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55	Study of Automated Embryo Manipulation Using Dynamic Microarray: Trapping, Culture and Collection. IEEJ Transactions on Sensors and Micromachines, 2009, 129, 245-251.	0.0	2
56	Design Optimization and Evaluation of a Bioluminescence Detection Part on a Microfluidic Device for in situ ATP Quantification. IEEJ Transactions on Sensors and Micromachines, 2009, 129, 73-76.	0.0	5
57	Stable immobilization of rat hepatocytes as hemispheroids onto collagen-conjugated polydimethylsiloxane (PDMS) surfaces: Importance of direct oxygenation through PDMS for both formation and function. Biotechnology and Bioengineering, 2008, 99, 1472-1481.	1.7	60
58	An integrated microfluidic system for long-term perfusion culture and on-line monitoring of intestinal tissue models. Lab on A Chip, 2008, 8, 741.	3.1	257
59	Enhanced maintenance and functions of rat hepatocytes induced by combination of on-site oxygenation and coculture with fibroblasts. Journal of Biotechnology, 2008, 133, 253-260.	1.9	58
60	Polymerase chain reaction-based biochemical logic gate coupled with cell-free transcription-translation of green fluorescent protein as a report gate. Chemical Communications, 2008, , 3771.	2.2	10
61	Development of "IISA-ATP" system for in situ microbial activity assessment in deep-sea environment. , 2008, , .		0
62	Evaluation of Cell-free Protein Synthesis Using PDMS-based Microreactor Arrays. Analytical Sciences, 2008, 24, 243-246.	0.8	12
63	Evaporative pumping of liquid in nanochannel for electrical measurement of a single biomolecule in nanofluidic format. , 2007, , .		1
64	Active immobilization of biomolecules on a hybrid three-dimensional nanoelectrode by dielectrophoresis for single-biomolecule study. Nanotechnology, 2007, 18, 495503.	1.3	22
65	Microfluidic Perfusion Culture of Human Hepatocytes. Journal of Robotics and Mechatronics, 2007, 19, 550-556.	0.5	3
66	Development of Microfluidic Device for Electrical/Physical Characterization of Single Cell. Journal of Microelectromechanical Systems, 2006, 15, 287-295.	1.7	46
67	Chemical delivery microsystem for single-molecule analysis using multilaminar continuous flow. Enzyme and Microbial Technology, 2006, 39, 519-525.	1.6	11
68	Controlling the expression ratio of two proteins by inserting a terminator between the two genes. Nucleic Acids Symposium Series, 2006, 50, 329-330.	0.3	0
69	Development of Micro Perfusion Cell Culture Device to Create In Vivo-Like Environments for Long-Period and Real-Time Monitoring of Cells Activities. , 2006, , .		1
70	Development of a Platform for Single-molecular Dynamics Study-Manipulations and Analysis using Microfluidic Devices and Nano-electrodes-. Hyomen Kagaku, 2006, 27, 102-107.	0.0	0
71	Development and Analysis of Multi-Laminar Chemical Delivery Platform Toward Single Molecular Application. , 2006, , .		0
72	Microfabricated flow-through device for DNA amplification-towards in situ gene analysis. Chemical Engineering Journal, 2004, 101, 151-156.	6.6	112

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73	Control of Oscillation Patterns in a Symmetric Coupled Biological Oscillator System. AIP Conference Proceedings, 2003, , .	0.3	0
74	PDMS-glass hybrid microreactor array with embedded temperature control device. Application to cell-free protein synthesis. Lab on A Chip, 2002, 2, 197-202.	3.1	114
75	Integration of gene amplification and capillary gel electrophoresis on a polydimethylsiloxane-glass hybrid microchip. Electrophoresis, 2001, 22, 328-333.	1.3	166
76	Development of Hybrid Microreactor for Protein Synthesis. IEEJ Transactions on Sensors and Micromachines, 2001, 121, 163-168.	0.0	0
77	Molecular surgery of DNA based on electrostatic micromanipulation. IEEE Transactions on Industry Applications, 2000, 36, 1010-1017.	3.3	86
78	<title>Molecular surgery of DNA</title>. , 1998, 3202, 228.		2